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In the Claims:

1. (currently amended) A method for <u>controlling causing a network device to locally perform a</u> data forwarding related service <u>in</u>, wherein the <u>a</u> network device <u>comprising</u> comprises a data forwarding device, comprising the steps of:

receiving at the network device a document written in accordance with a markup language and a corresponding document definition, wherein the document describes the a data forwarding service;

parsing by the network device the received document in accordance with the corresponding document definition, wherein the parsing determines at least one parameter describing the data forwarding service; and

executing the data forwarding service on the network device in accordance with the parsed document.

- 2. (original) A method according to claim 1, wherein the step of executing includes the step of interfacing with hardware and software on the network device.
- (original) A method according to claim 1, wherein the markup language is XML.
- 4. (original) A method according to claim 3, wherein the corresponding document definition is an XML DTD.
- 5. (original) A method according to claim 1, further comprising:

retrieving the corresponding document definition from a plurality of document definitions in accordance with an identifier in the received document.

6. (original) A method according to claim 5, wherein the plurality of document definitions are provided in a local storage of the network device.

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- 7. (original) A method according to claim 3, further comprising the step of:
- retrieving the corresponding document definition from a plurality of document definitions in accordance with an identifier in the received document.
- 8. (original) A method according to claim 5, wherein the plurality of document definitions are provided in a local storage of the network device.
- 9. (original) A method according to claim 1, wherein the step of parsing includes the step of parsing from the document an identifier corresponding to the service.
- 10. (original) A method according to claim 9, wherein the step of parsing further includes the step of parsing from the document runtime parameters corresponding to the service.
- 11. (original) A method according to claim 5, further including the step of: instantiating an object corresponding to the service in accordance with the parsed identifier.
- 12. (original) A method according to claim 10, further including the step of:
 instantiating an object corresponding to the service in accordance with the parsed
 identifier and the parsed runtime parameters.
- 13. (original) A method according to claim 1, wherein the network device comprises one of a router, a switch, and a hub.
- 14. (original) A method according to claim 1, wherein the network device comprises a packet forwarding architecture.
- 15. (original) A method according to claim 1, further comprising the step of preparing a response corresponding to the executed service.

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- 16. (original) A method according to claim 14, further comprising the step of forwarding the response to a remote requestor of the service.
- 17. (currently amended) A network device for locally performing a data forwarding related service in response to a remote request, wherein the network device comprises a data forwarding device, comprising:

means for receiving at the network device a document written in accordance with a markup language and a corresponding document definition, wherein the document describes the a data forwarding service;

means for parsing by the network device the received document in accordance with the corresponding document definitions, wherein the parsing determines at least one parameter describing the data forwarding service; and

means for executing the data forwarding service on the network device in accordance with the parsed document.

- 18. (original) A network device according to claim 17, wherein the means for executing includes means for interfacing with hardware and software on the network device.
- 19. (original) A network device according to claim 17, wherein the markup language is XML.
- 20. (original) A network device according to claim 19, wherein the corresponding document definition is an XML DTD.
- 21. (original) A network device according to claim 17, further comprising:

means for retrieving the corresponding document definition from a plurality of document definitions in accordance with an identifier in the received document.

22. (original) A network device according to claim 21, wherein the plurality of document definitions are provided in a local storage of the network device.

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- 23. (original) A network device according to claim 19, further comprising:
- means for retrieving the corresponding document definition from a plurality of document definitions in accordance with an identifier in the received document.
- 24. (original) A network device according to claim 21, wherein the plurality of document definitions are provided in a local storage of the network device.
- 25. (original) A network device according to claim 17, wherein the means for parsing includes means for parsing from the document an identifier corresponding to the service.
- 26. (original) A network device according to claim 25, wherein the means for parsing further includes means for parsing from the document runtime parameters corresponding to the service.
- 27. (original) A network device according to claim 21, further including:
- means for instantiating an object corresponding to the service in accordance with the parsed identifier.
- 28. (original) A network device according to claim 26, further including:
- means for instantiating an object corresponding to the service in accordance with the parsed identifier and the parsed runtime parameters.
- 29. (original) A network device according to claim 17, wherein the network device comprises one of a router, a switch, and a hub.
- 30. (original) A network device according to claim 17, wherein the network device comprises a packet forwarding architecture.
- 31. (original) A network device according to claim 17, further comprising means for preparing a response corresponding to the executed service.

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- 32. (original) A network device according to claim 30, further comprising means for forwarding the response to a remote requestor of the service.
- 33. (currently amended) A network device for locally performing a data forwarding related service in accordance with a received document written in a document markup language, wherein the network device comprises a data forwarding device, comprising:

a parser that is adapted to parse the received document in accordance with a document definition to obtain an identifier of the service, wherein the parsing determines at least one parameter describing the data forwarding service; and

a service launcher that is adapted to launch the data forwarding service corresponding to the identifier parsed from the received document.

- 34. (original) A network device according to claim 33, further comprising:
- a network data transfer service that is adapted to communicate with remote devices for receiving the document.
- 35. (original) A network device according to claim 34, wherein the network data transfer service comprises an HTTP server.
- (original) A network device according to claim 33, wherein the markup language is XML.
- 37. (original) A network device according to claim 36, wherein the document definition is an XML DTD.
- 38. (original) A network device according to claim 33, further comprising a document definition storage coupled to the parser that stores a plurality of document definitions, the parser being further adapted to select the document definition from the stored plurality of document definitions in accordance with a document definition identifier.

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- 39. (original) A network device according to claim 33, further comprising a services storage coupled to the service launcher that stores a plurality of services, the service launcher being further adapted to select the service from the stored plurality of services in accordance with the parsed identifier.
- 40. (original) A network device according to claim 33, further comprising an Oplet Runtime Environment, the service launcher being further adapted to launch the service under the Oplet Runtime Environment.
- 41. (original) A network device according to claim 33, further comprising a packet forwarding switch fabric.
- 42. (original) A network device according to claim 41, wherein the launched service causes changes in how packets are forwarded through the packet forwarding switch fabric.
- 43. (original) A network device according to claim 41, wherein the launched service monitors performance indicators of how packets are forwarded through the packet forwarding switch fabric.
- 44. (original) A network device according to claim 41, wherein the launched service accesses a MIB on the network device.
- 45. (original)A network device according to claim 33, further comprising device APIs for interoperating with device hardware and software for executing the launched services.
- 46. (original) A network device according to claim 40, further comprising device APIs for interoperating with device hardware and software for executing the launched services.
- 47. (original) A network device according to claim 41, further comprising device APIs for interoperating with device hardware and software for executing the launched services.

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48. (currently amended) A method for causing a network device to locally perform a data forwarding related service, wherein the network device comprises a data forwarding device, comprising the steps of:

identifying the data forwarding service to be performed at a remote client computer; preparing at the remote client computer a document written in a markup language in accordance with a document definition, the document including an identifier of the service, wherein the document describes the a data forwarding service;

transmitting the document to the network device;

identifying at the network device the document definition corresponding to the transmitted document;

parsing by the network device the transmitted document in accordance with the corresponding document definition, wherein the parsing determines at least one parameter describing the data forwarding service; and

executing the data forwarding related service on the network device in accordance with the parsed document.

- 49. (original) A method according to claim 48, wherein the markup language is XML.
- 50. (original) A method according to claim 49, wherein the corresponding document definition is an XML DTD.